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SECRET 28095Z APR 69 CITE [REDACTED] 0434

28 APR 69 IN 45614

1. [REDACTED] CONDITION GOOD, BUT WILL REMAIN IN HOSPITAL ABOUT FOUR DAYS VICE REF A ESTIMATE OF TWO DAYS DUE TO BURNS ON RIGHT HAND BEING MORE SEVERE THAN ORIGINALLY BELIEVED. [REDACTED] PLANS TO INFORM EMPLOYER 281300Z OF ACCIDENT AND PLANS FOR COMPLETING REPAIR.
2. GENERATOR REPAIR WAS VERY NEARLY COMPLETED (SEE REF B) WHEN ACCIDENT OCCURRED. LOOSE METALIC OBJECTS TURNED OUT TO BE THREE SHEARED-OFF BOLT HEADS CONNECTING MOTOR FLYWHEEL TO SHAFT. SHAFT HAD ROTATED 180 DEGREES INSIDE FLYWHEEL AFTER BOLTS AND LOCKING KEY SHEARED. NO EXPLANATION OFFERED FOR THIS. KEY AND BOLTS HAD BEEN REPLACED BY [REDACTED] AND GENERATOR RECONNECTED TO MOTOR. PREPARATIONS WERE IN PROGRESS BY INDIGENOUS MECHANIC TO RESTORE PROPER ALIGNMENT FOLLOWING DISASSEMBLY. [REDACTED] DURING THIS TIME WAS TROUBLESHOOTING UNRELATED LESSER PROBLEM IN CONTROL CABINET WHEN ACCIDENT TOOK PLACE.
3. ENSUING FLASH REPORTED REF A BADLY SCORED ONE END OF REGULATOR ASSEMBLY AND BUILDUP RELAY. BLACKENED AREA ABOUT TEN INCHES IN

SECRET

CABLE SECRETARIAT DISSEMINATION		CLASSIFIED MESSAGE		TOTAL COPIES		DOWNGRADING AND/OR INITIALS - SEEN BY	
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28 APR 69 13 39 Z

PAGE TWO [REDACTED] 0434 S E C R E T

25X1A

DIAMETER CENTERED ABOUT TERMINAL 60 ON MAIN TERMINAL BOARD.

CLOSER INSPECTION FOLLOWING REF A REVEALED THAT 480 VOLT INPUT ALSO SHORTED ON ADJACENT TERMINALS.

25X1A

4. [REDACTED] SENDING FOR REPLACEMENT PARTS AT OUR REQUEST, PLUS THREE INPUT BREAKERS SHOWN ON PRINT 136-E-302 BUT NOT PROVIDED. A FOURTH BREAKER, 30A, 3P IS TO BE ADDED TO INCOMING 480V LINE. DISTRIBUTION THEN TO BE MADE FROM THESE BREAKERS VICE EXISTING <sup>NG</sup> BARRIER STRIP. BREAKERS WILL PERMIT DISCONNECTING THE CABINET FROM ALL 208V OR 480V WITH THE EXCEPTION OF GENERATOR OUTPUT.

25X1A

5. SECOND PROBLEM REPORTED REF A REQUIRED MODIFICATION BY [REDACTED] HIGH MOTOR CURRENT CHARACTERISTIC OF INDUCTION MOTOR MODE CAUSED EXCESSIVELY HIGH OUTPUT FROM EXCITER FIELD SUPPLY AND IN TURN SUB-TRACTIVE EXCITER. DIODES WERE AT OUTPUT OF SUBTRACTIVE EXCITER AND APPAR<sup>EN</sup>ELY BROKE DOWN TAKING RESISTORS WITH THEM. MODIFICATION ELIMINATES INDUCTION MOTOR MODE BY KEEPING ALL MOTOR FIELDS EXCITED WHEN NOT ON ENGINE DRIVE.

25X1A

6. IT NOW APPEARS THAT [REDACTED] NO-BREAK WILL BE OUT OF SERVICE

25X1A

FOR AT LEAST ANOTHER WEEK WHILE PARTS ON WAY AND [REDACTED] RECUPERATES.  
S E C R E T

**SECRET**